Reference values for Muscle and Nerve Ultrasonography in Adults

Published: 18-08-2014 Last updated: 20-04-2024

To obtain normal values for neuromuscular ultrasound parameters in adults.

Ethical review Approved WMO

StatusRecruitment stoppedHealth condition typeNeuromuscular disordersStudy typeObservational invasive

Summary

ID

NL-OMON41059

Source

ToetsingOnline

Brief title

REMNUA

Condition

Neuromuscular disorders

Synonym

Reference value muscle nerve

Research involving

Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Muscle, Nerve, Reference values, Ultrasound

Outcome measures

Primary outcome

Neuromuscular ultrasound parameters: muscle and nerve thickness, area,

Secondary outcome

echogenicity and vascularity.

Not applicable

Study description

Background summary

Neuromuscular ultrasound parameters are increasingly being used in the analysis of neuromuscular diseases. Normal values depend on equipment, settings and demographic characteristics. Collection of normal values as obtained with our own equipment and settings using standardized measurement protocols at the Department of Neurology, Clinical Neurophysiology, AMC, are needed for proper judgement in clinical practice and for reference values to be used in future study populations in patients with diseased muscles and nerves.

Study objective

To obtain normal values for neuromuscular ultrasound parameters in adults.

Study design

Observational, cross-sectional study.

Study burden and risks

Ultrasound is a non-invasive, painless, and harmless investigation, thus having a negligible risk and burden for the healthy volunteers. After filling out a short check list to exclude a possible neuromuscular disease, the ultrasound investigations will take 60 min. There will be no health benefits for the healthy volunteers. Travel costs will be reimbursed.

Contacts

Public

Academisch Medisch Centrum

Meibergdreef 9 Amsterdam 1100 DD NL

Scientific

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Healthy volunteers, male and female, 18 * >80 years of age

Exclusion criteria

Diseases in medical history that may influence neuromuscular system Increased alcohol use (>3 per day)
Medication that may influence neuromuscular system
Family history with neuromuscular disorders;Symptoms of muscle weakness
Sensory symptoms

Study design

Design

Study type: Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 10-03-2015

Enrollment: 100

Type: Actual

Ethics review

Approved WMO

Date: 18-08-2014

Application type: First submission

Review commission: METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register

ID

ССМО

NL48391.018.14